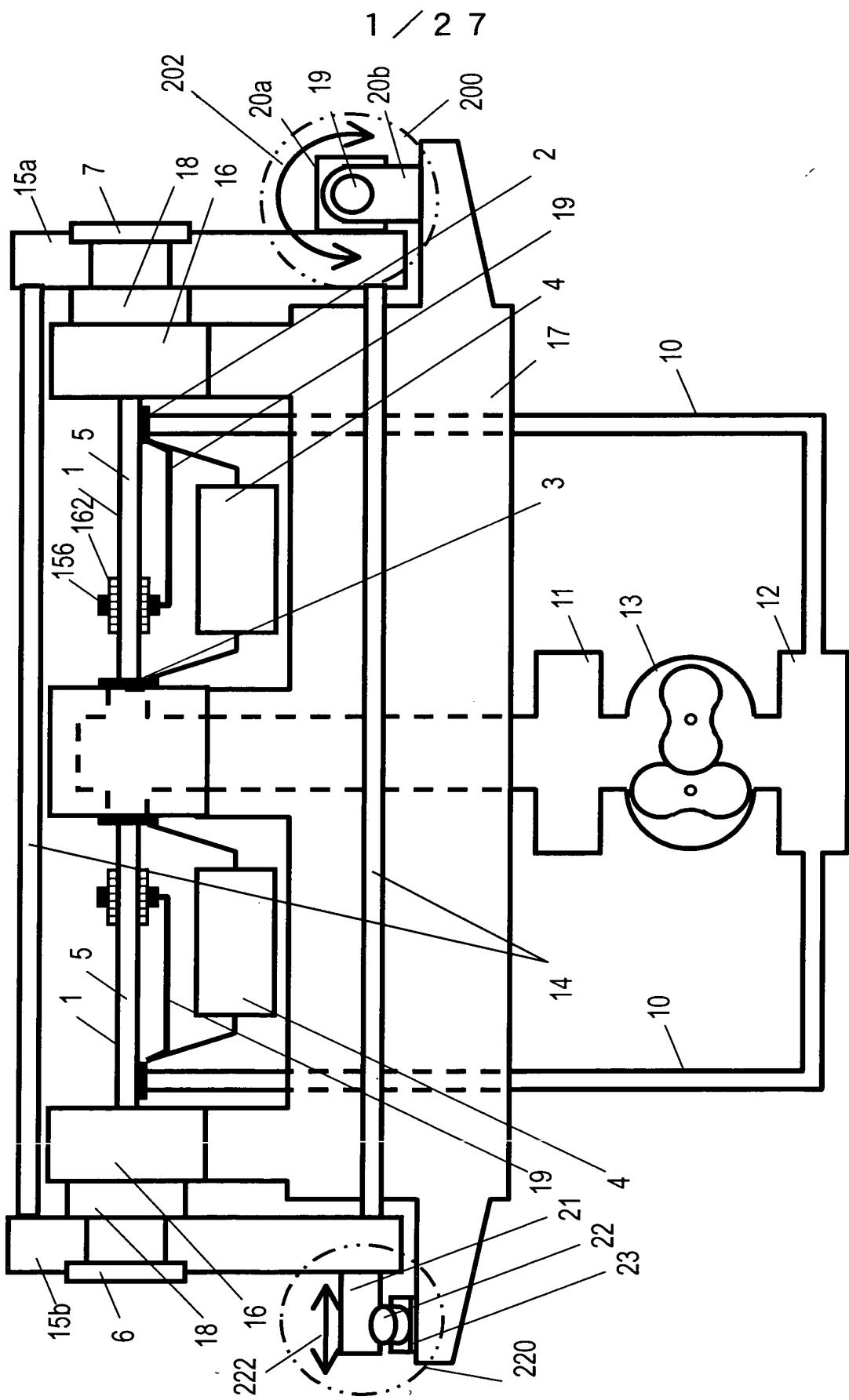


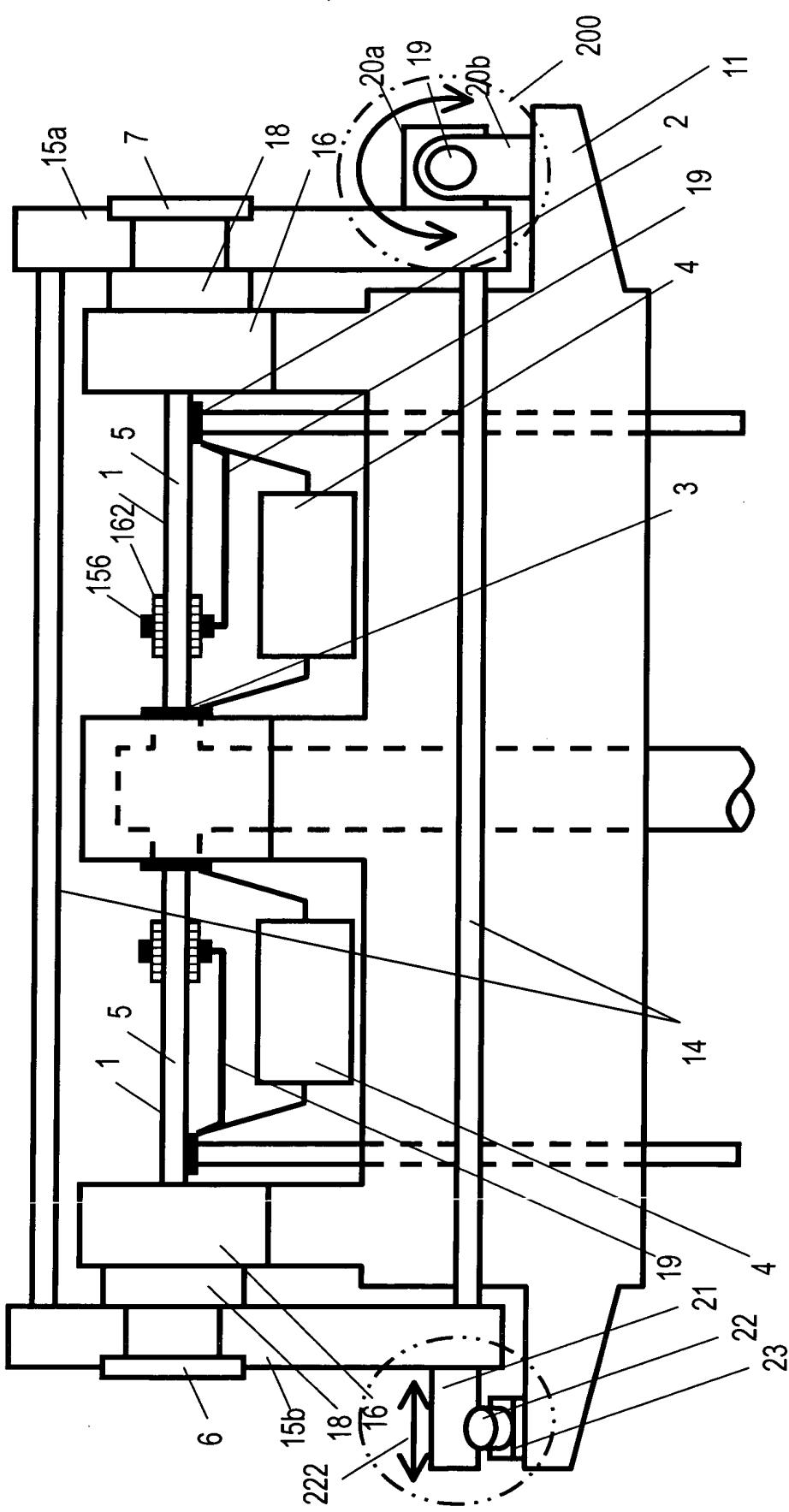
FIG.1



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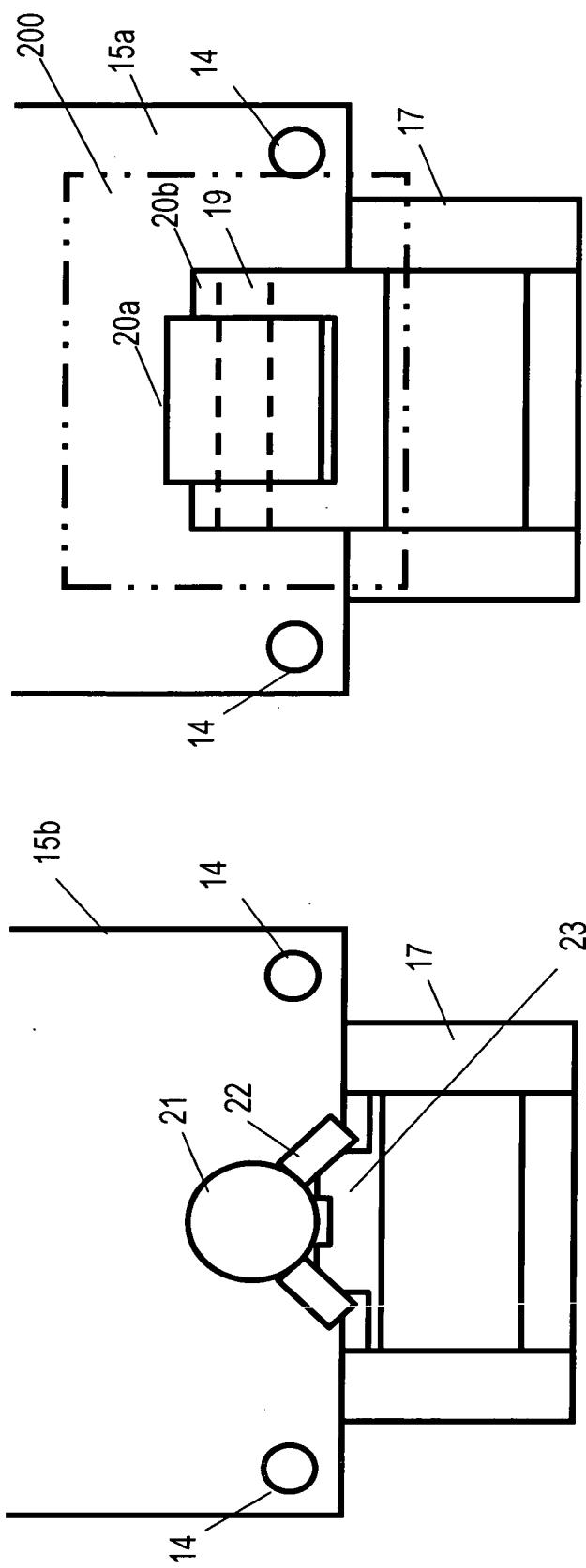
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FIG.2



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FIG.3A  
FIG.3B



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FIG.4

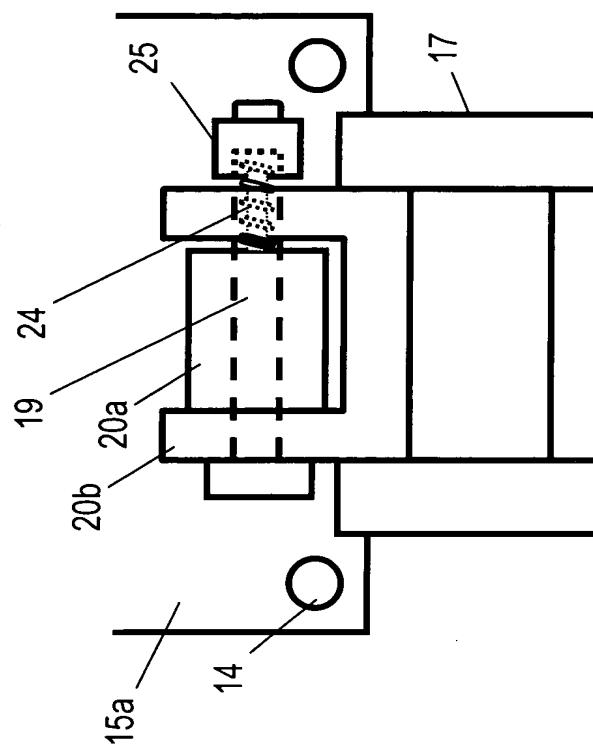
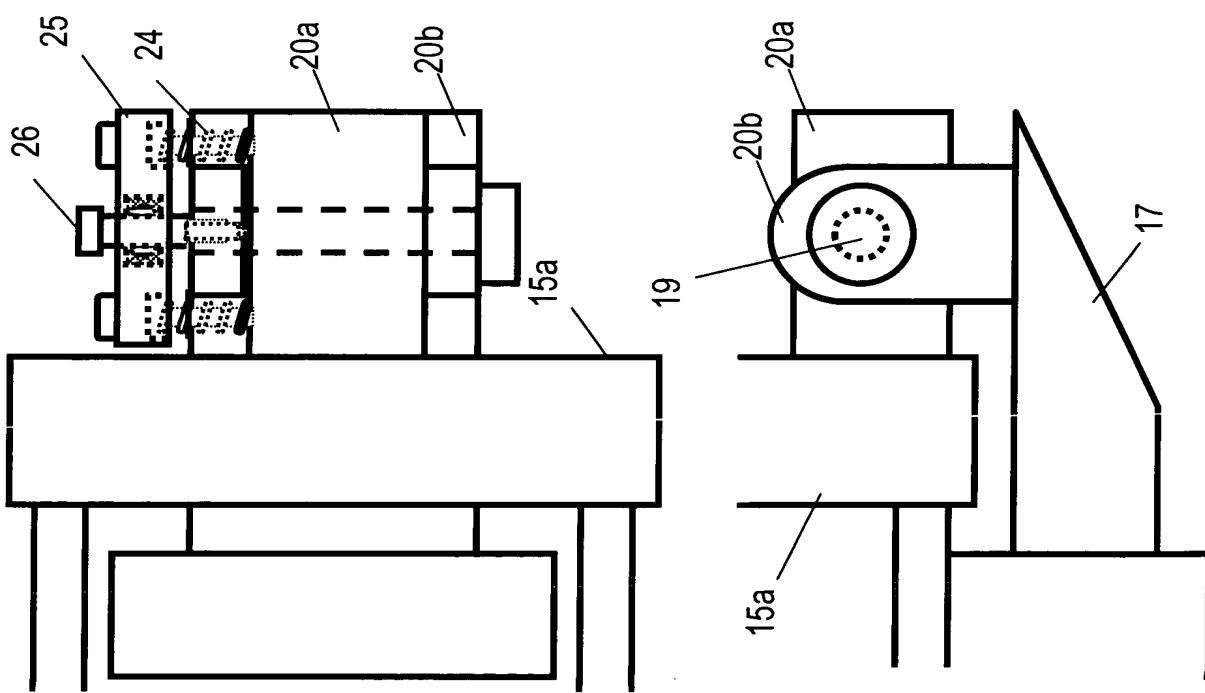
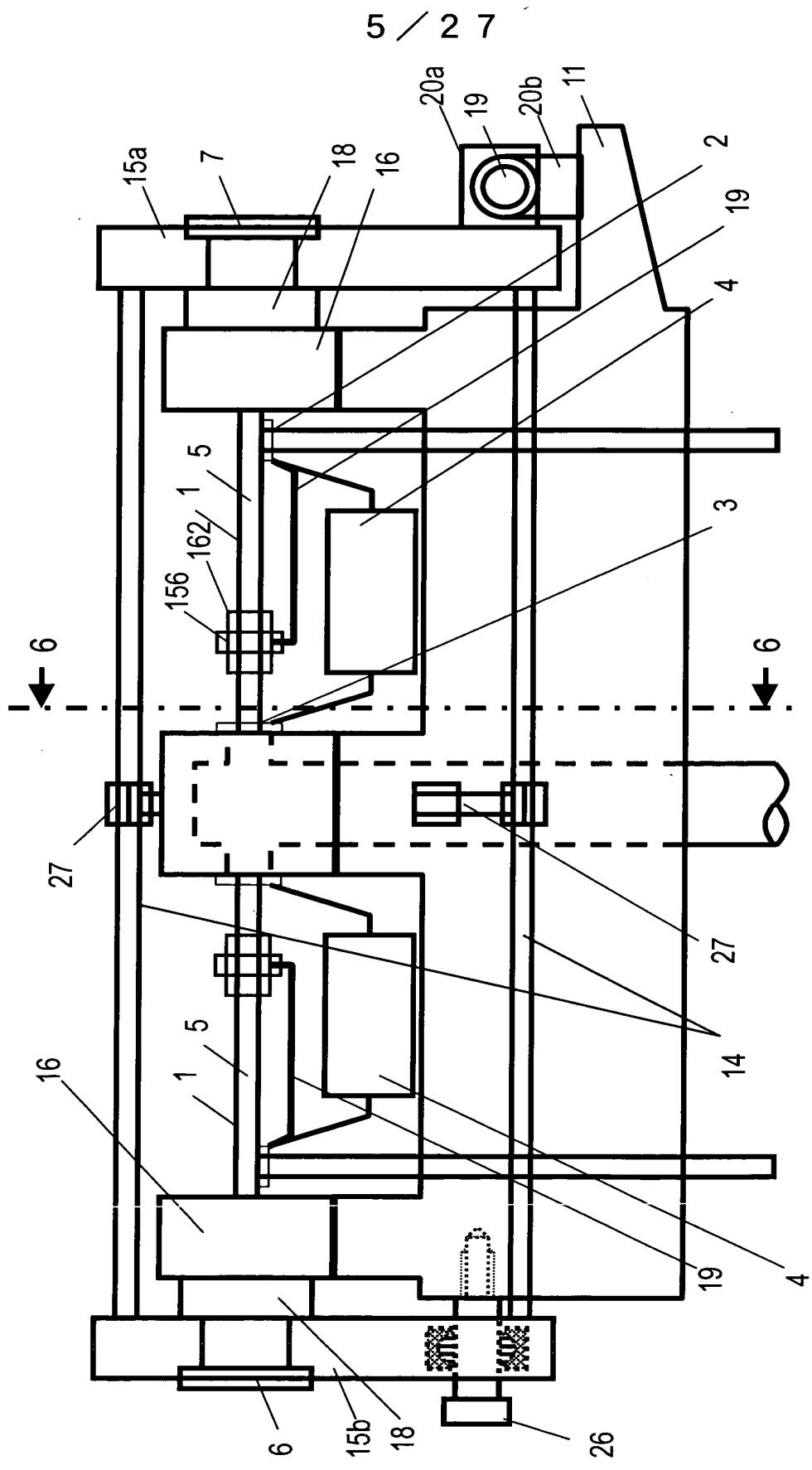


FIG.5A



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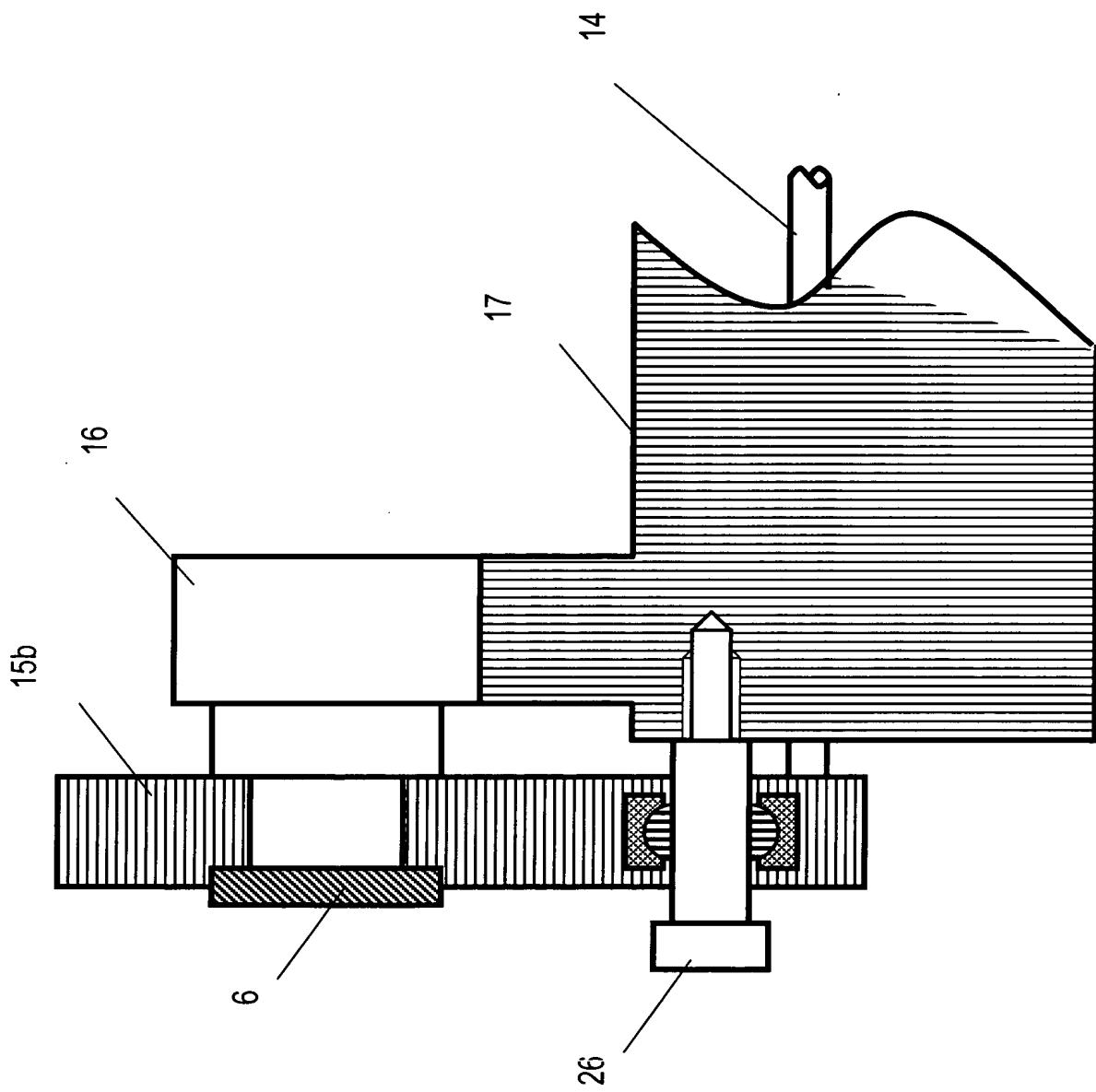


FIG.5B

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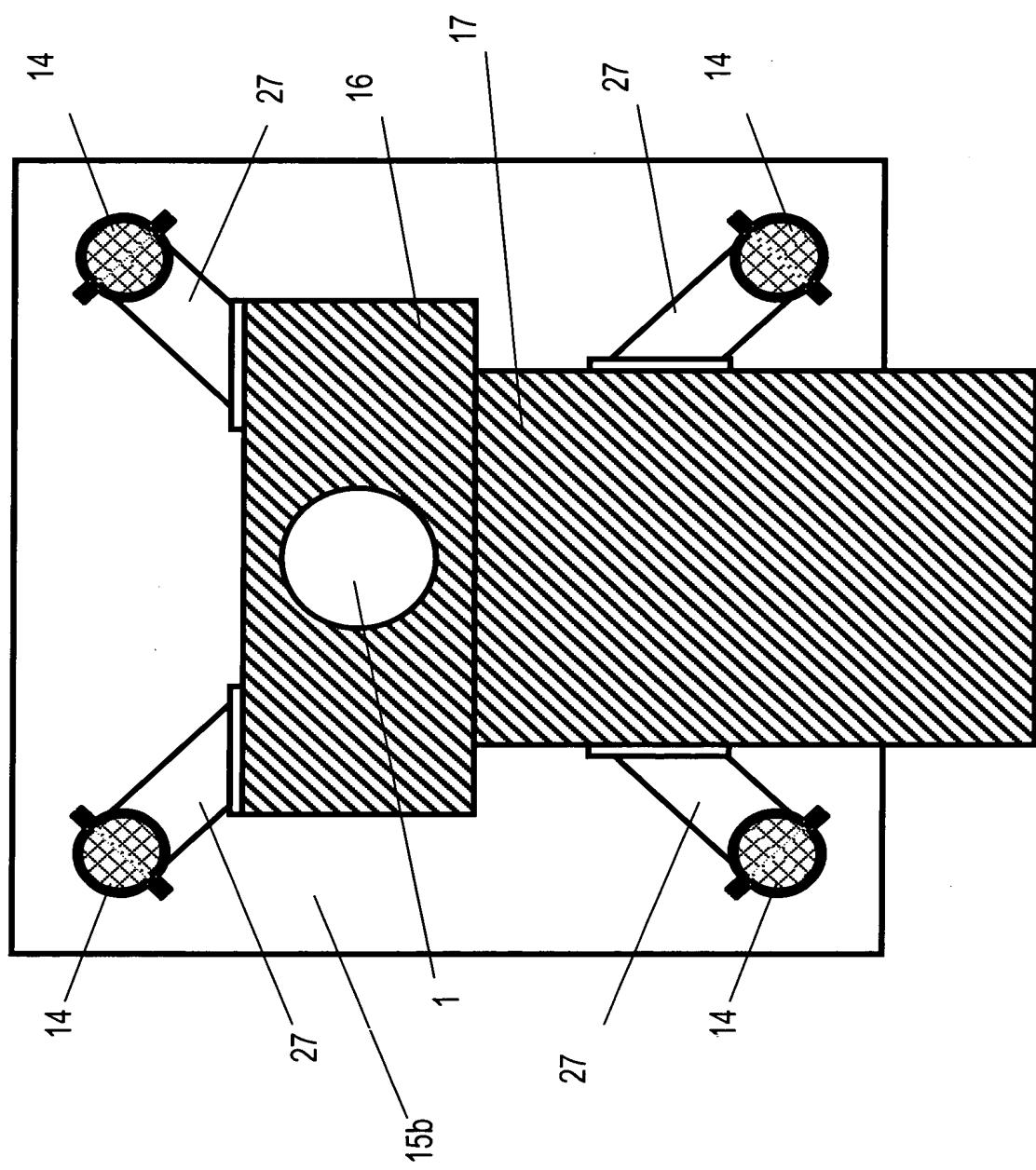


FIG.6

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FIG.7

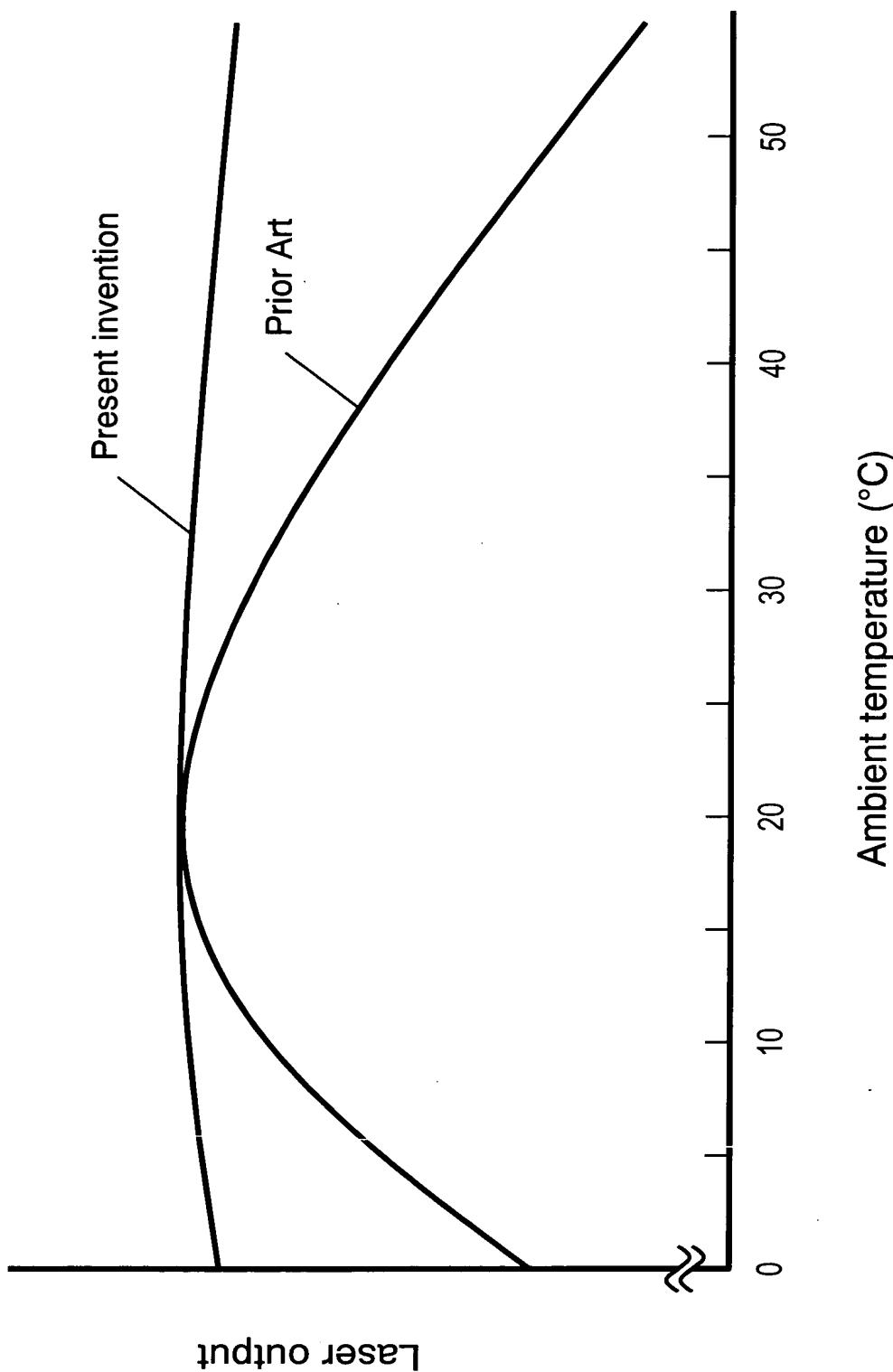
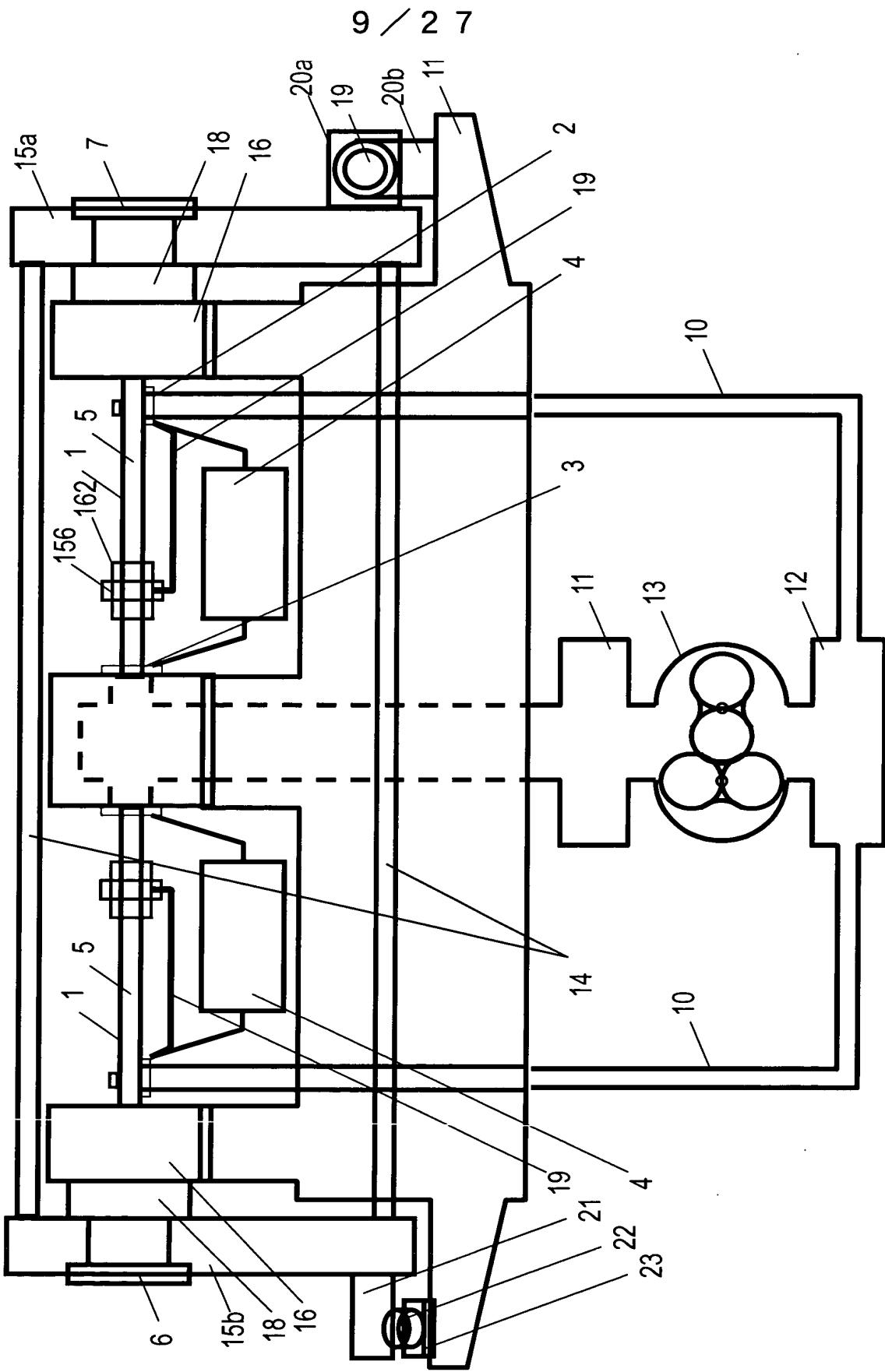


FIG.8



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FIG.11

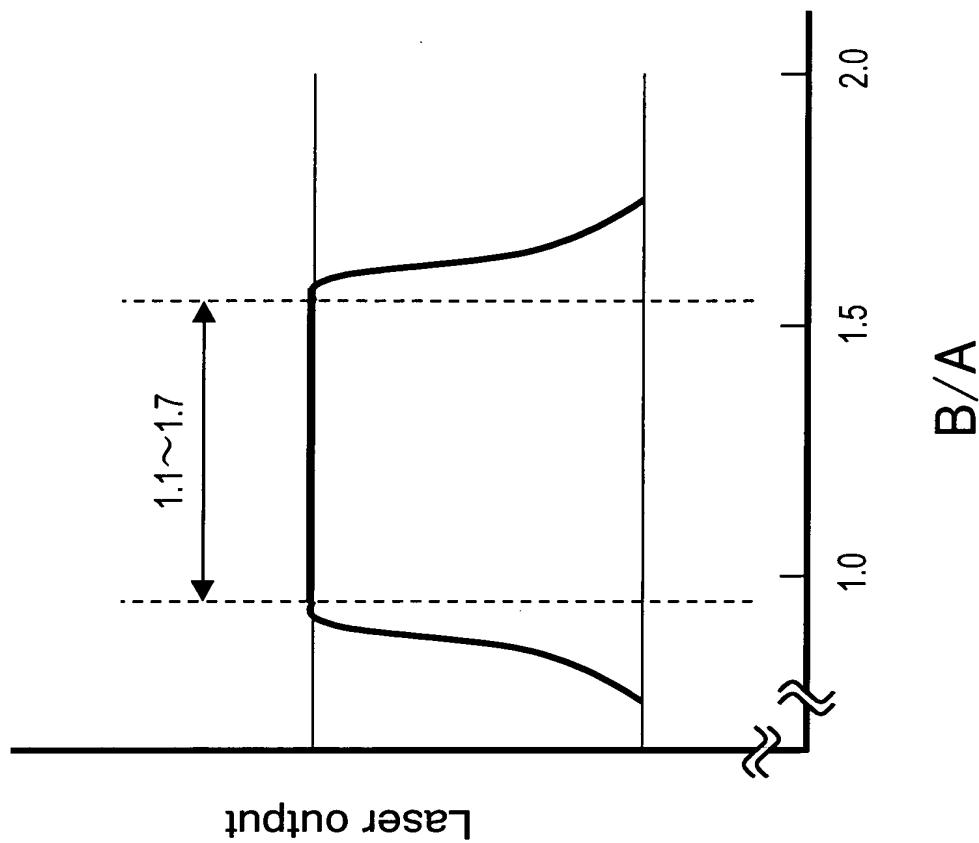


FIG.9

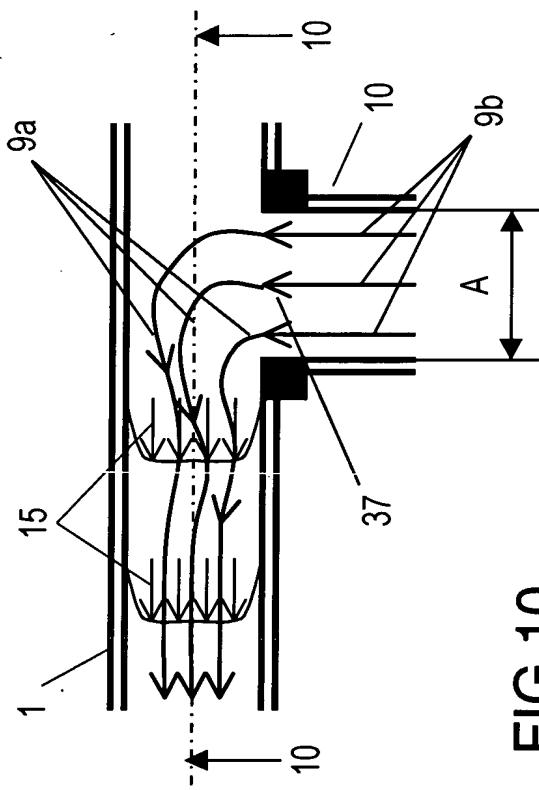
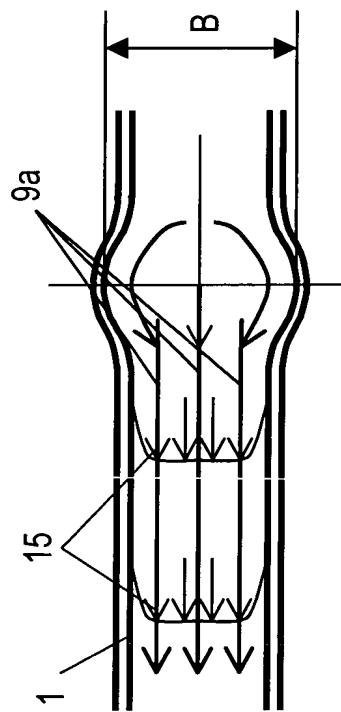
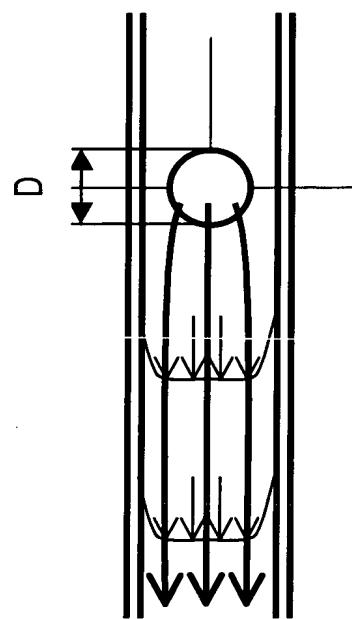
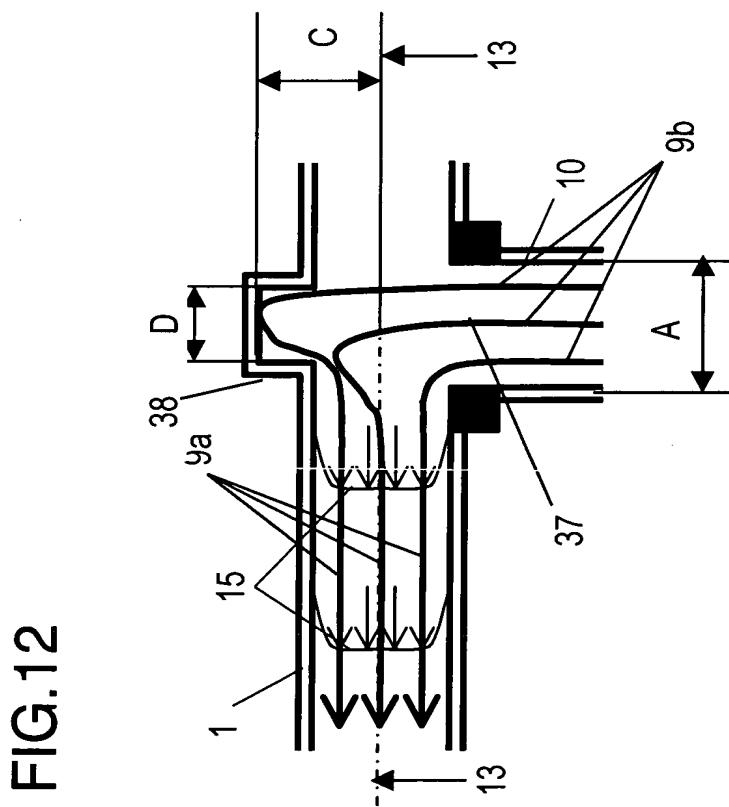
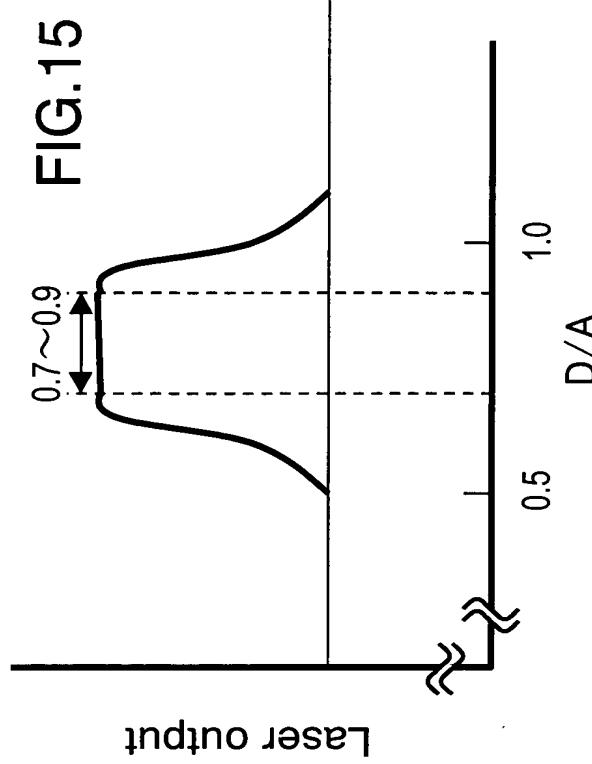
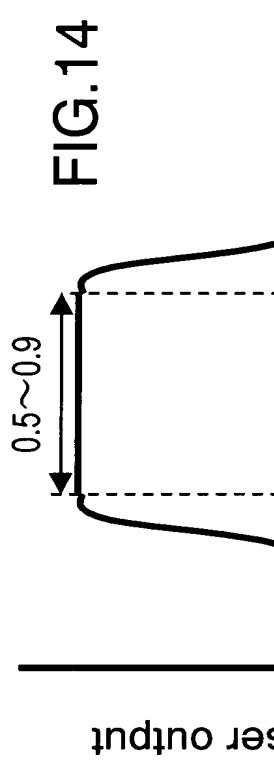


FIG.10



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FIG.18

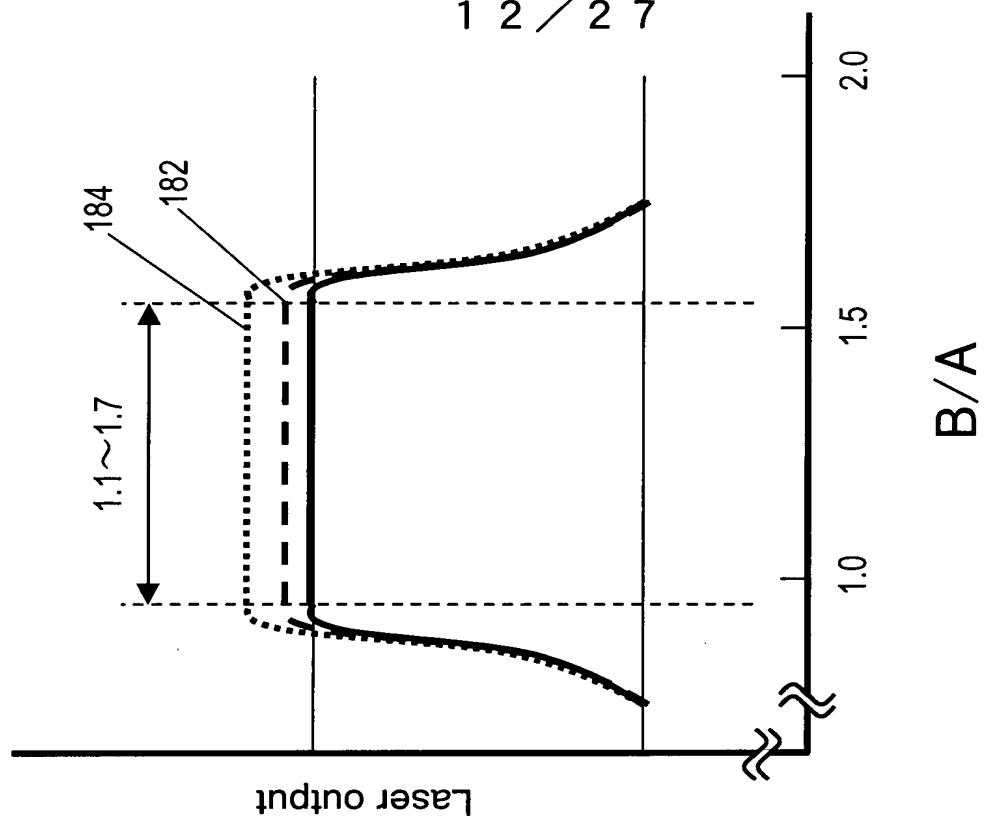
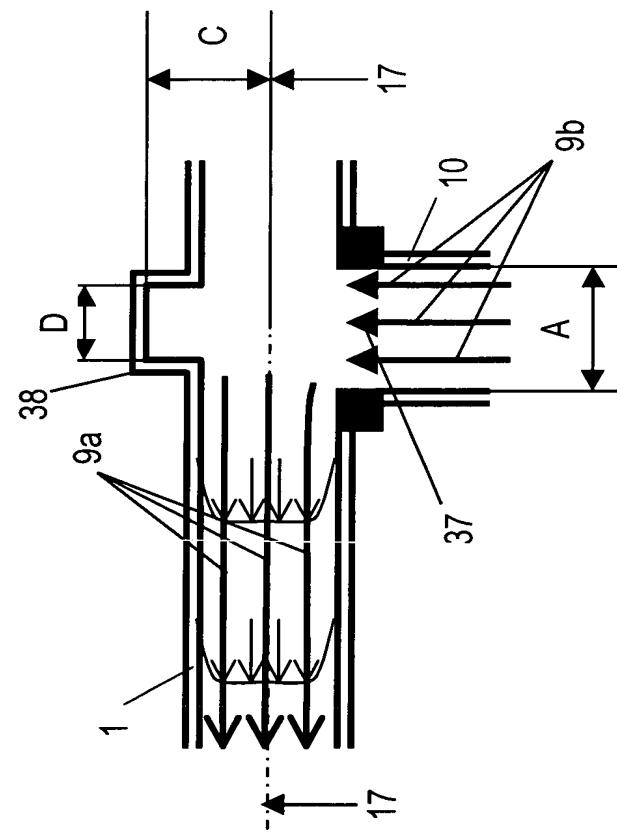
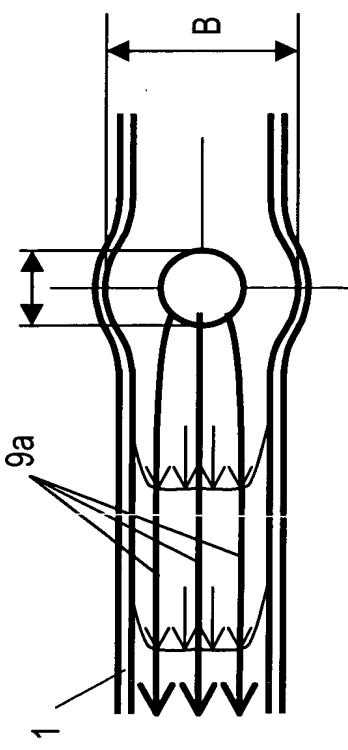


FIG.17



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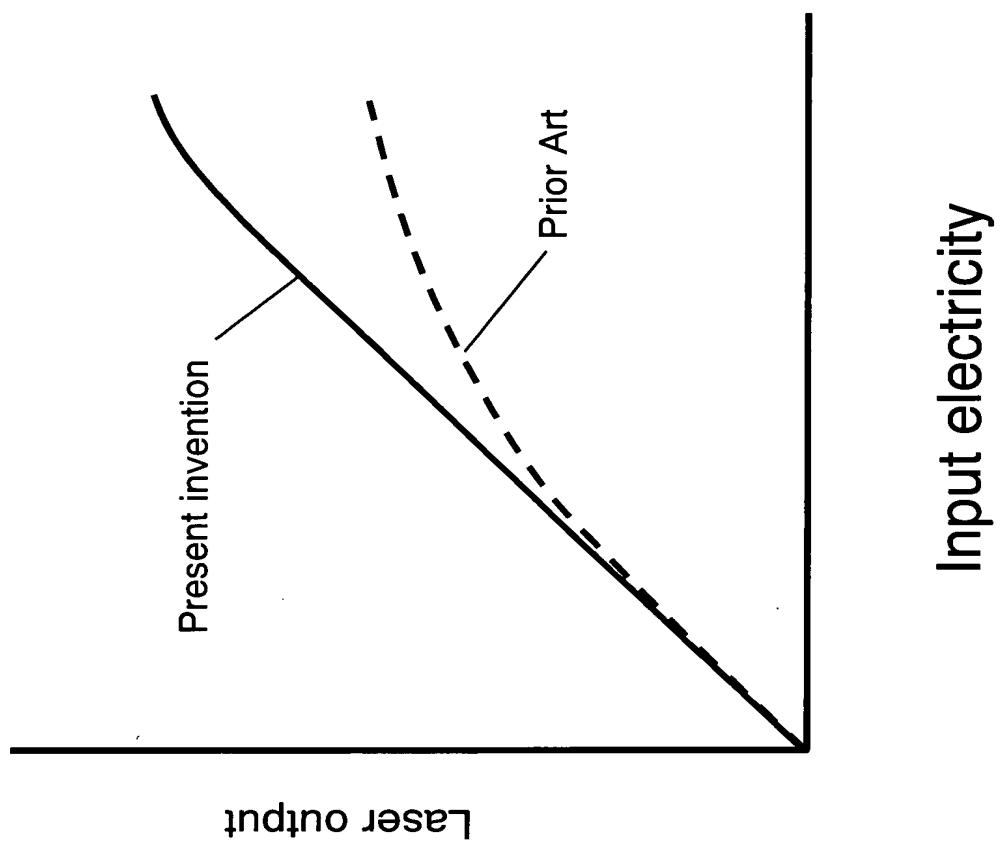
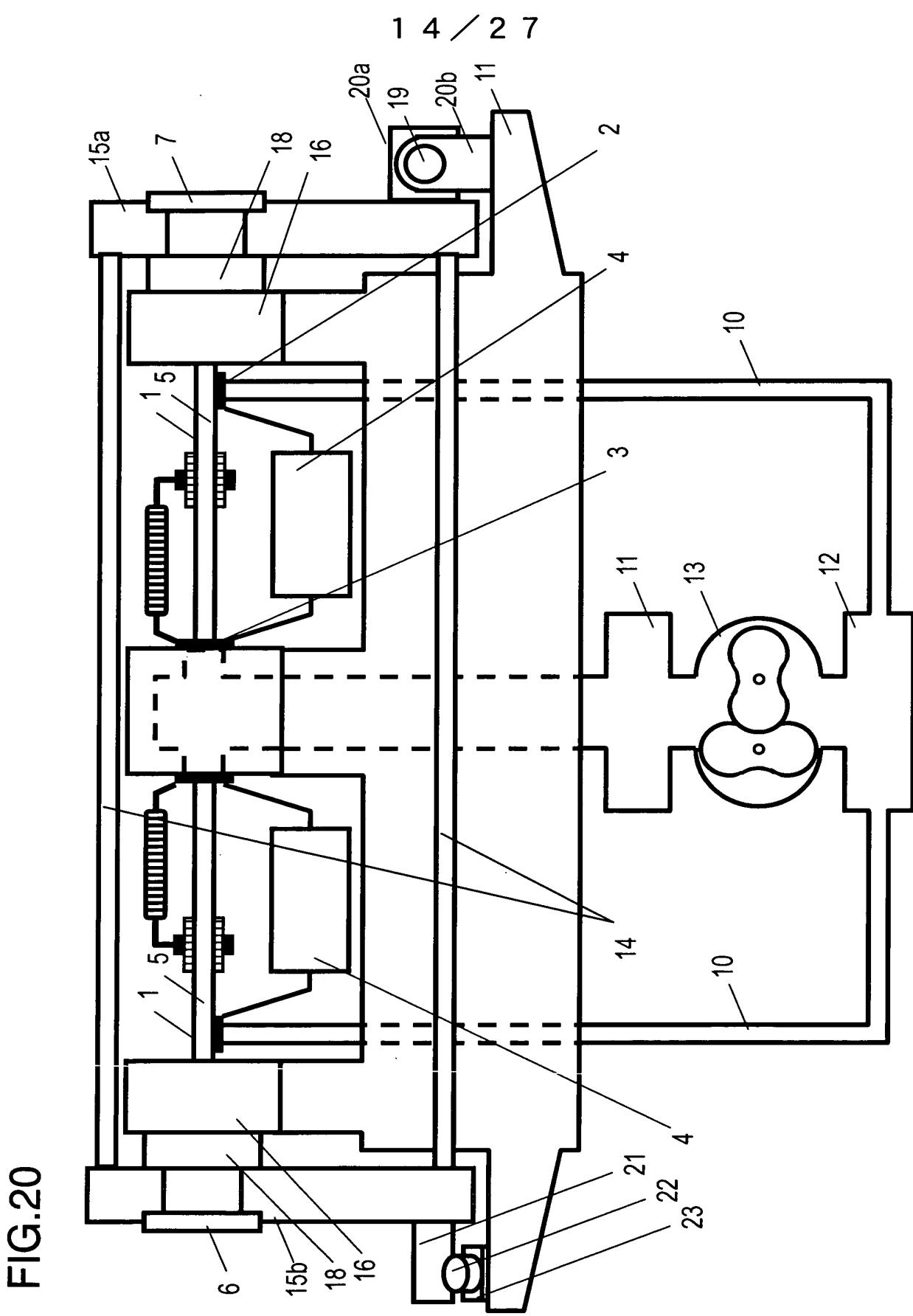


FIG.19

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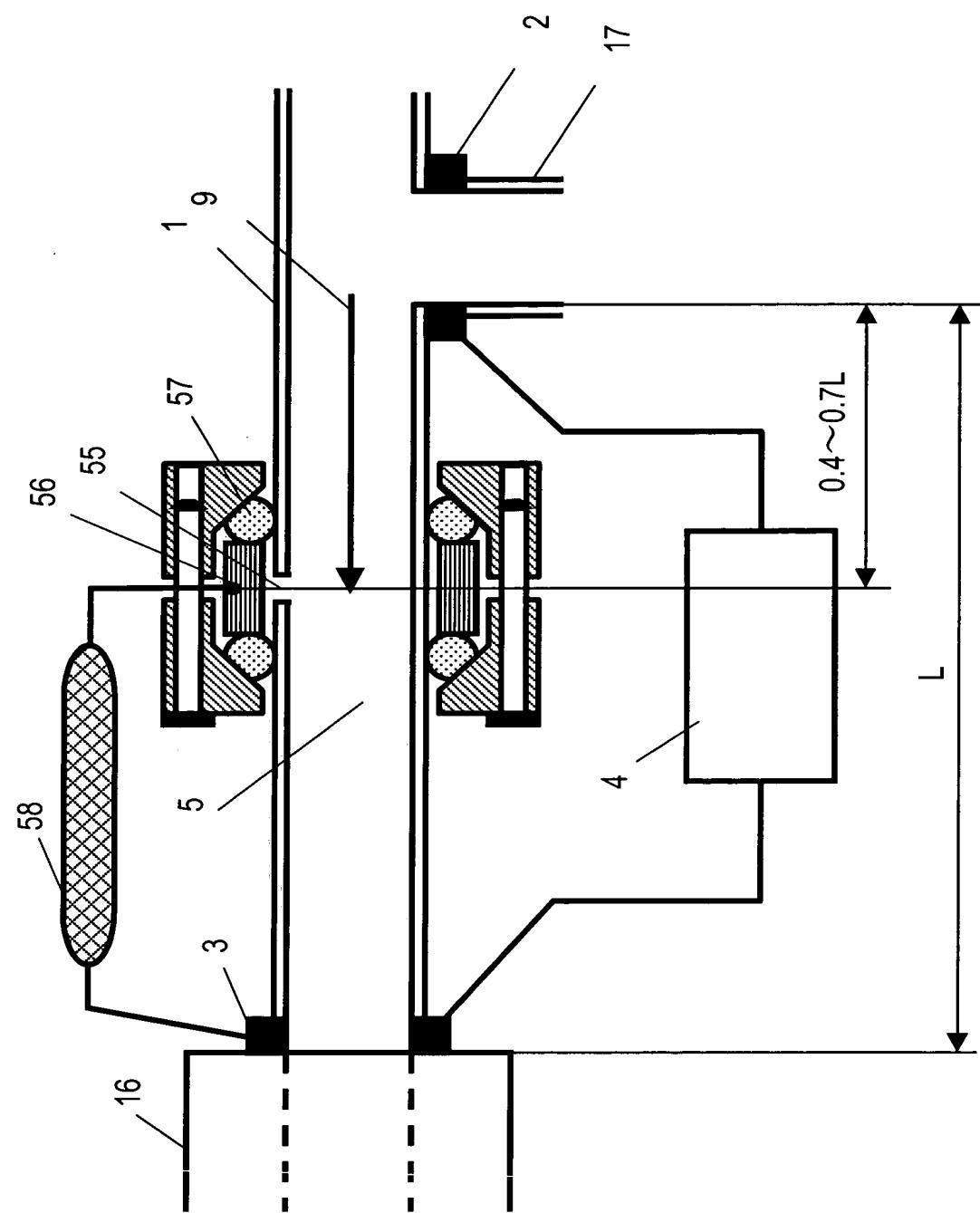


FIG.21

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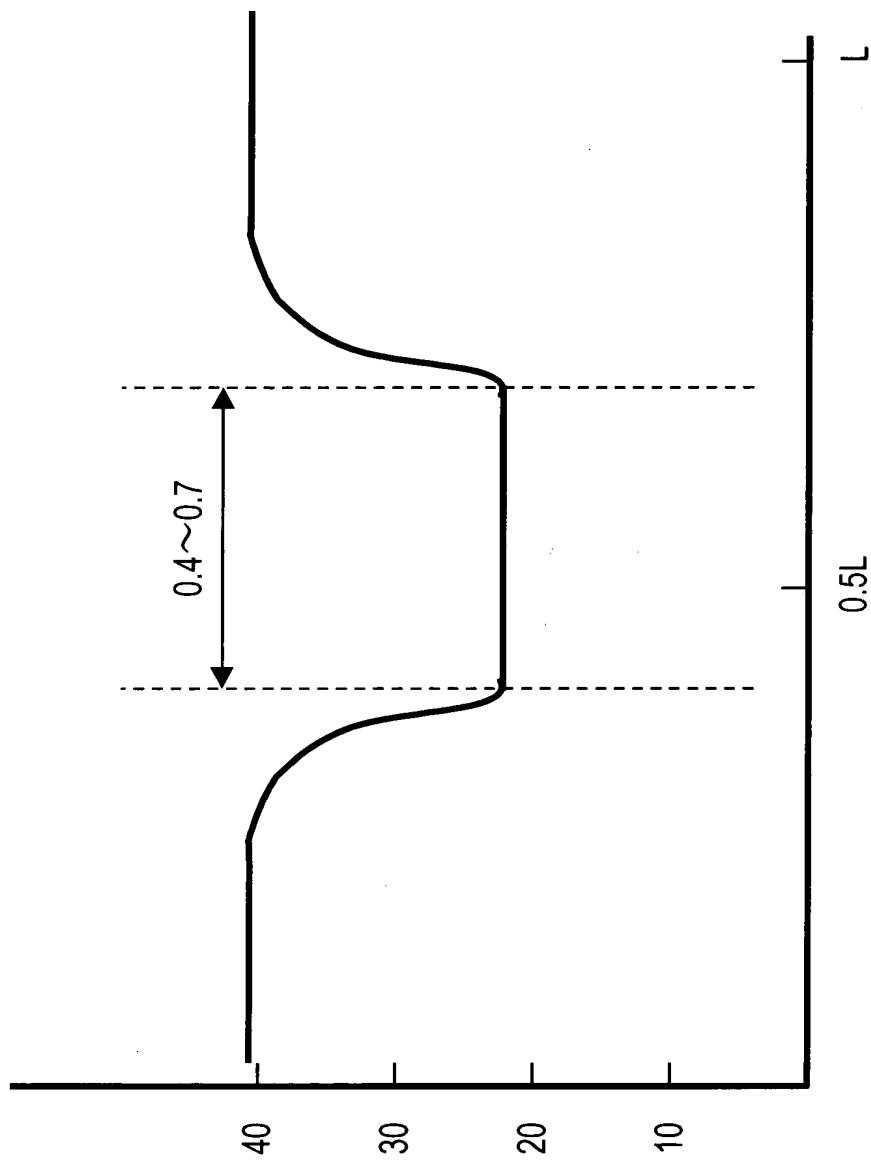
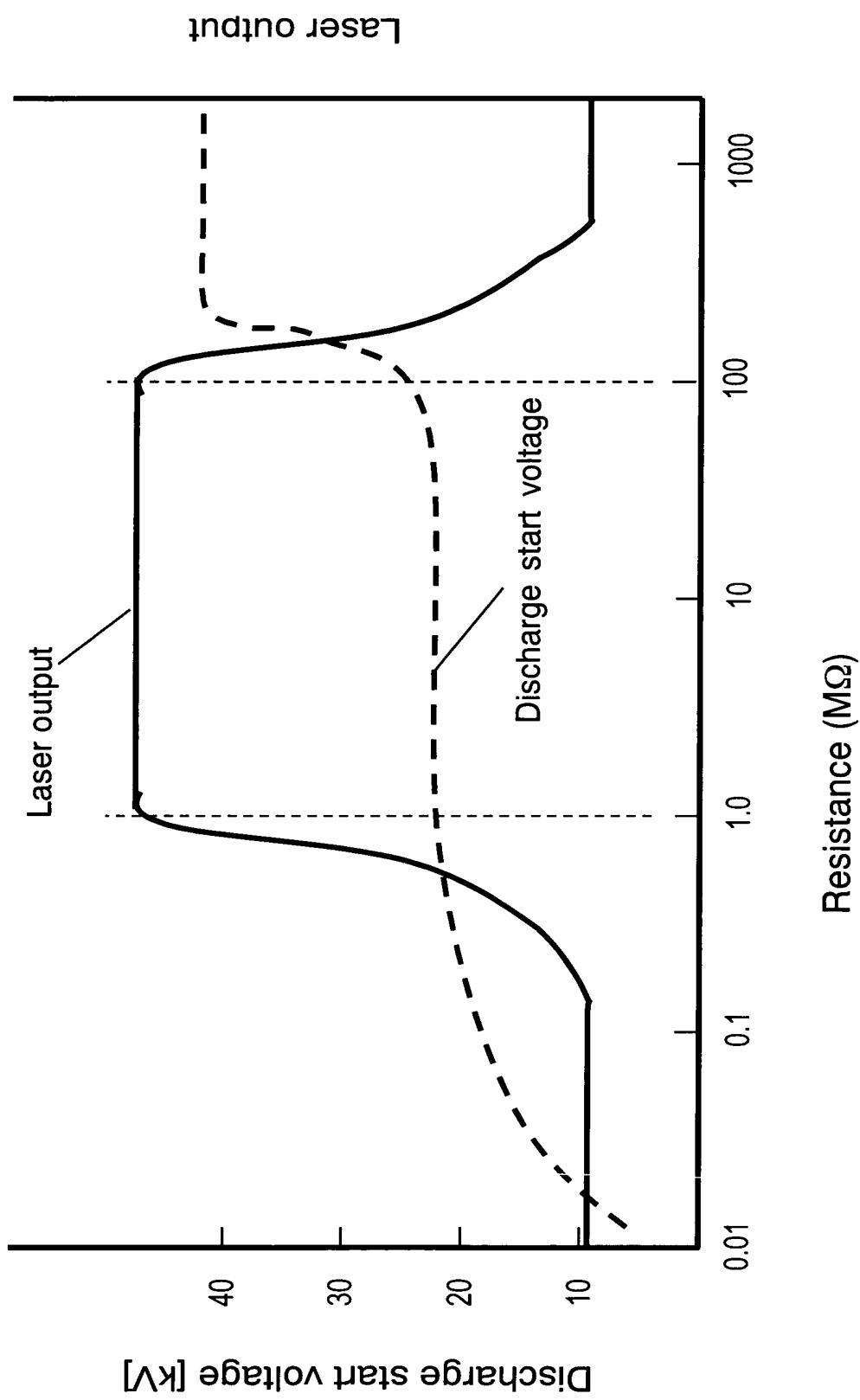


FIG.22

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FIG.23



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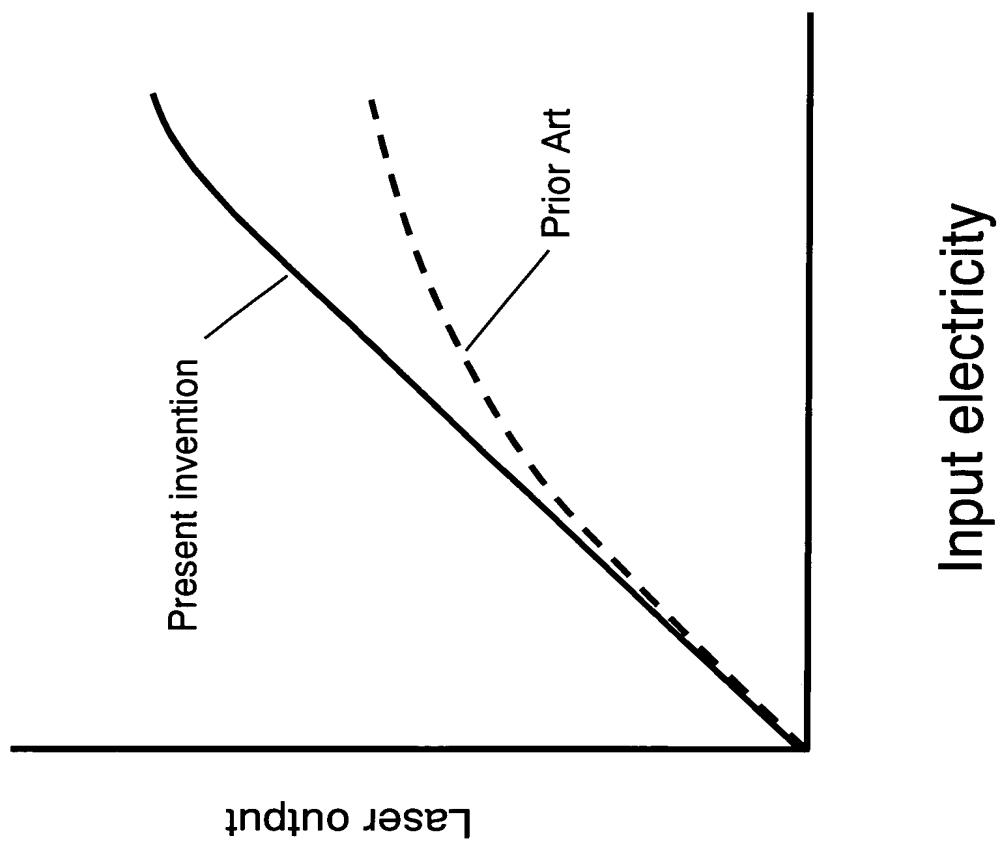
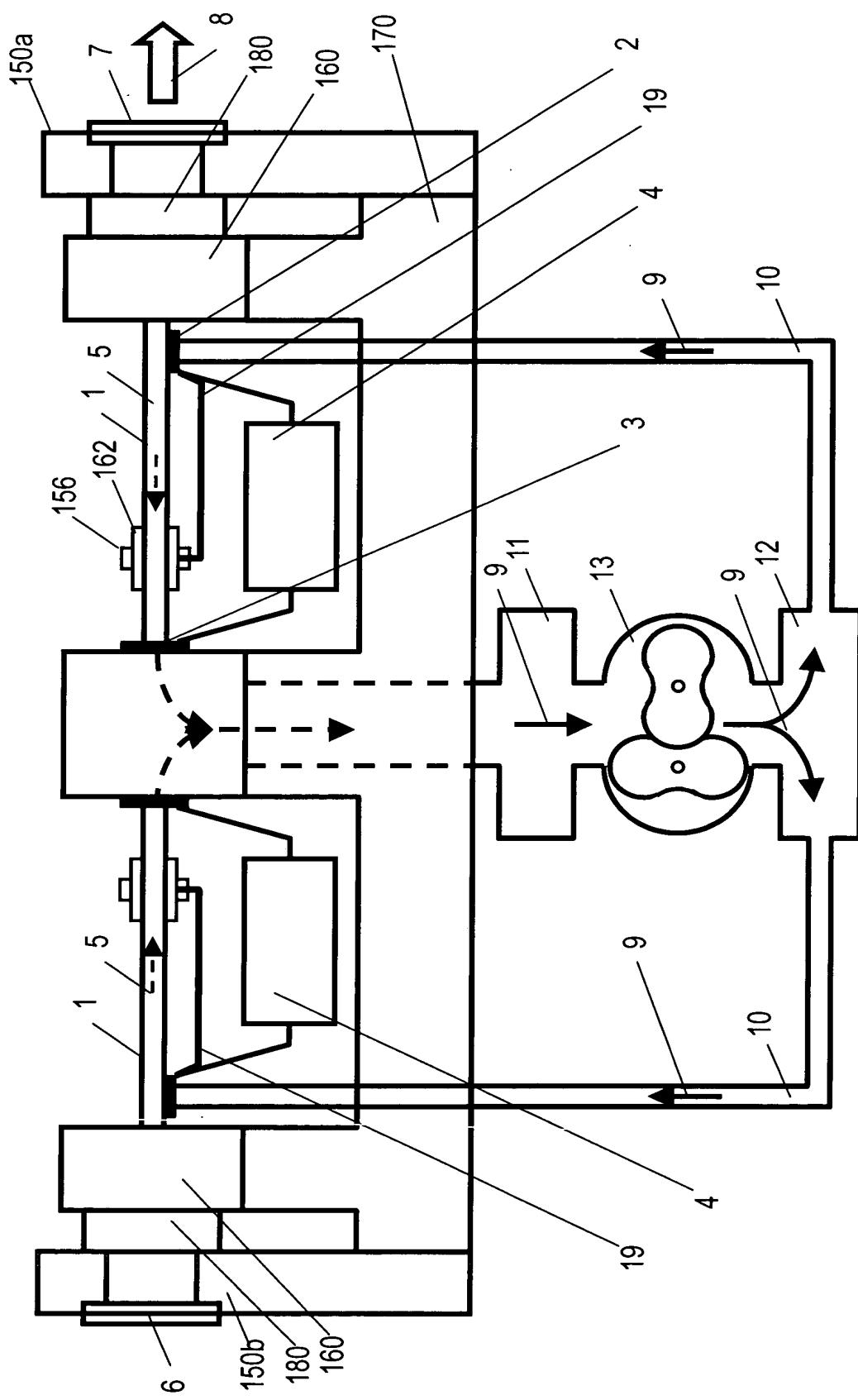


FIG.24

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FIG.25



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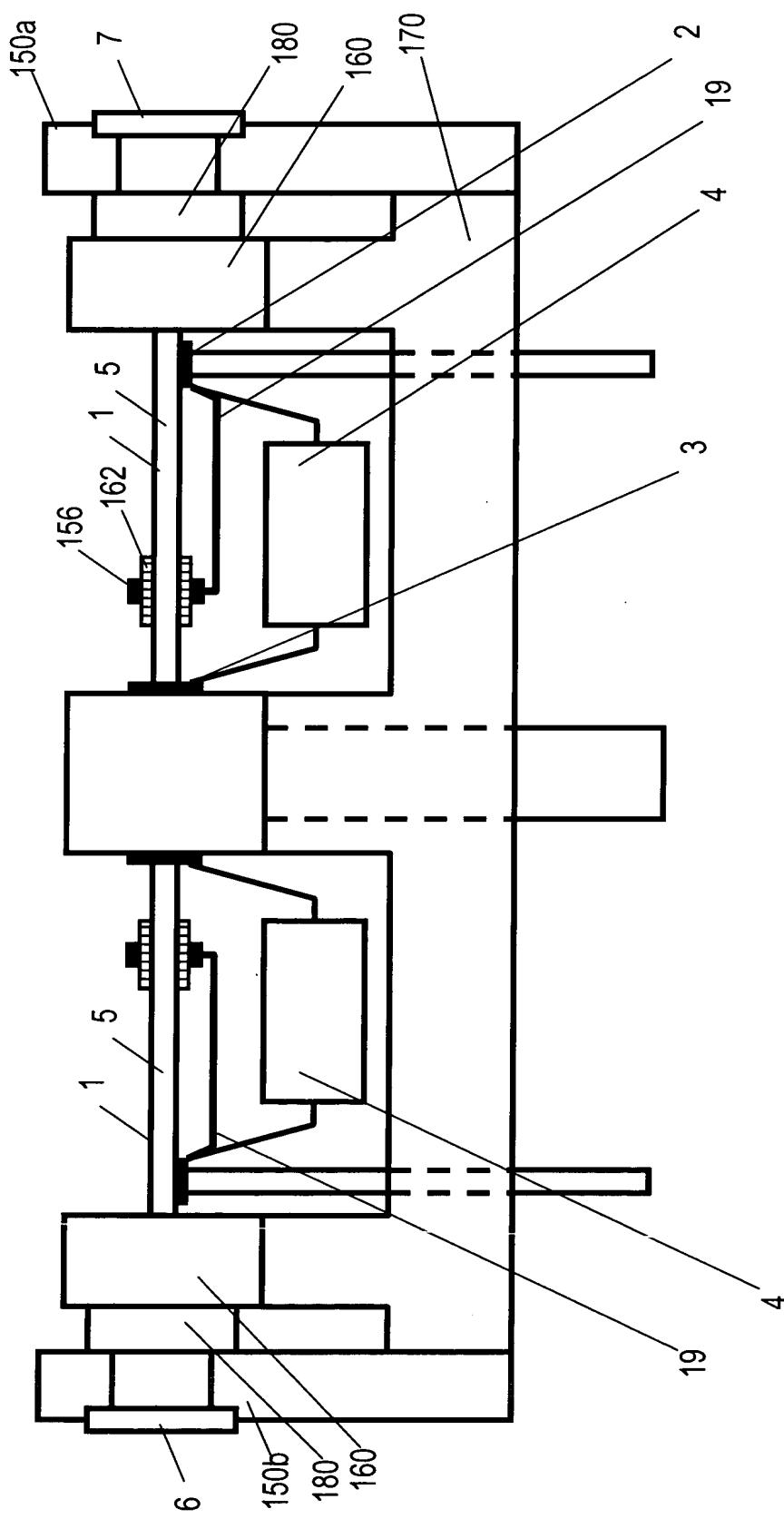


FIG.26

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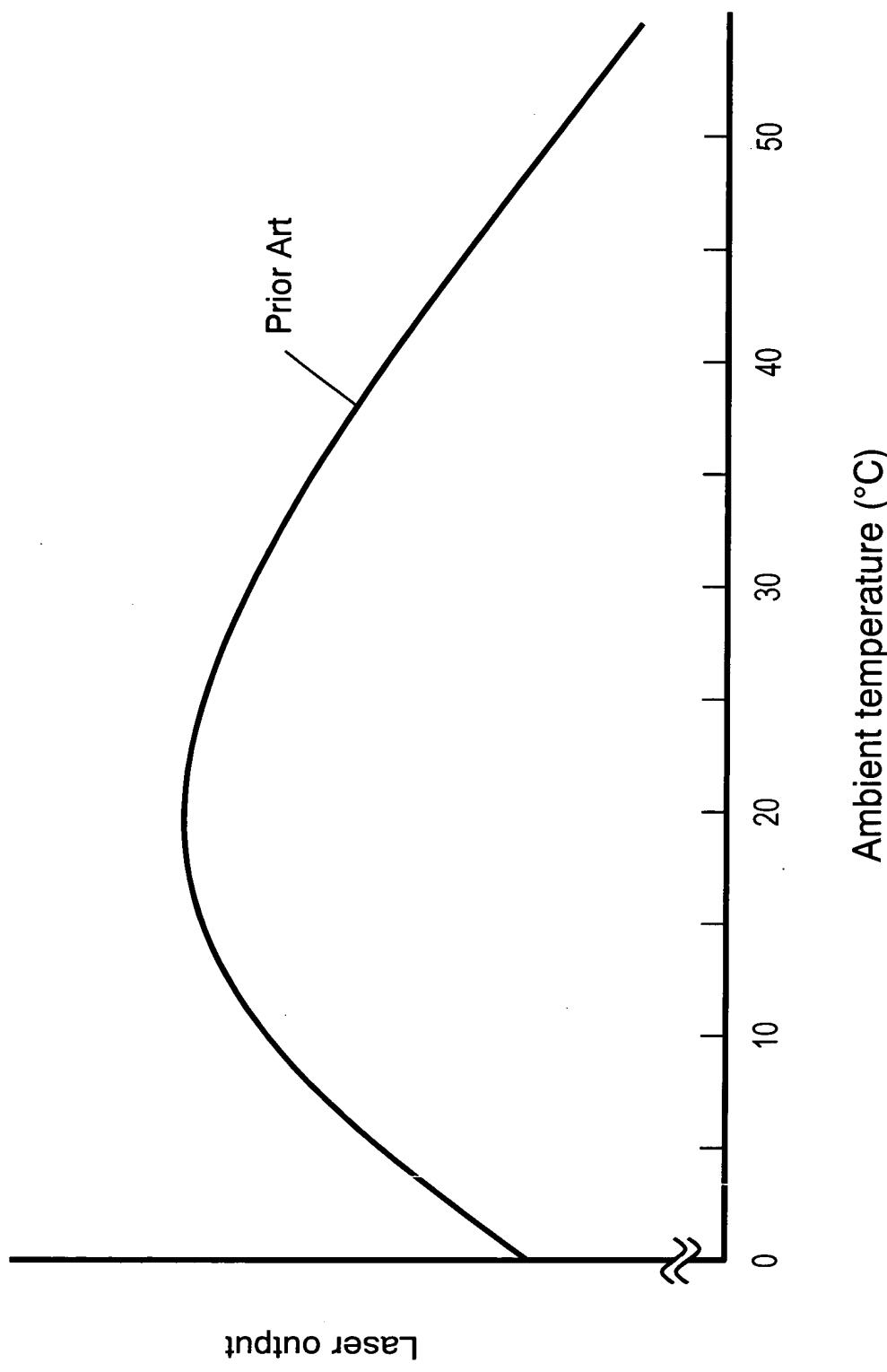
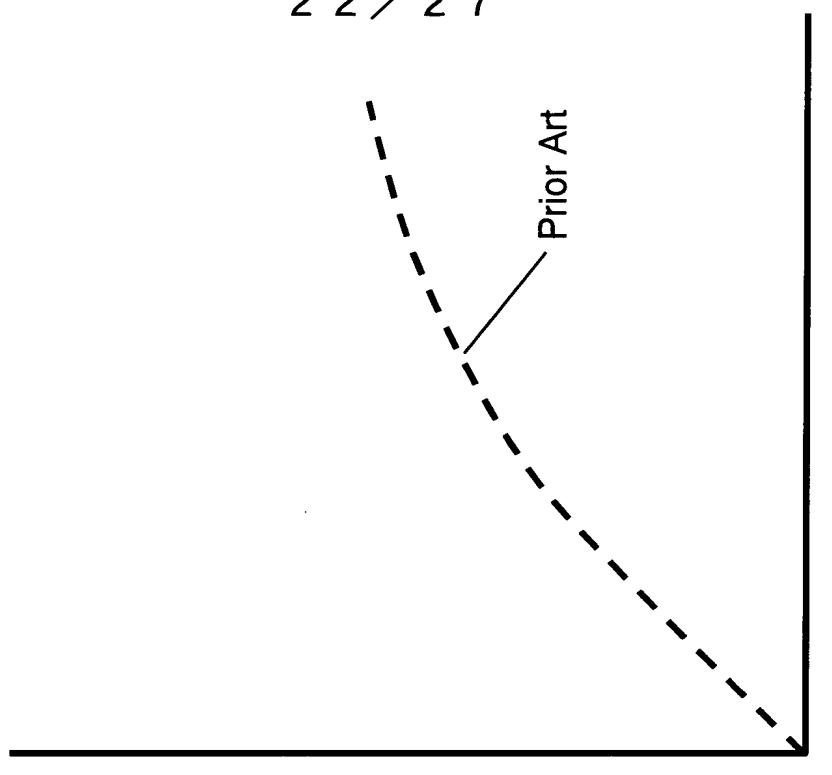


FIG.27

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FIG.30



Input electricity

FIG.28

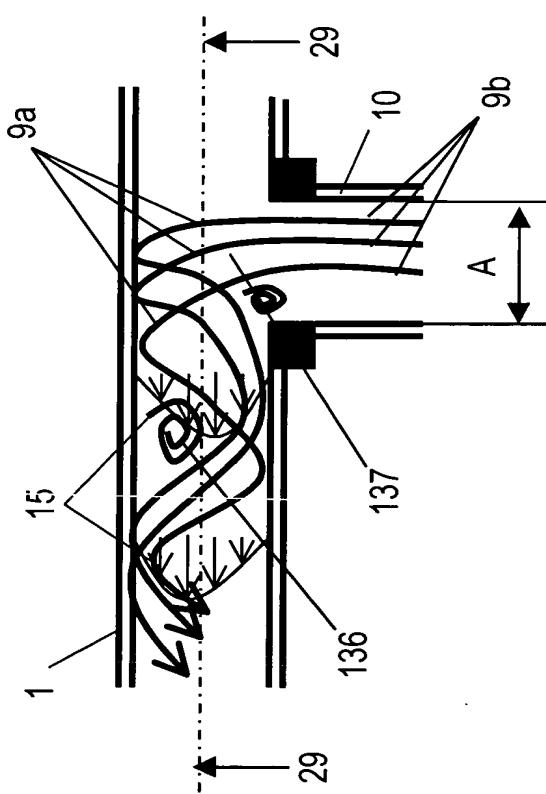
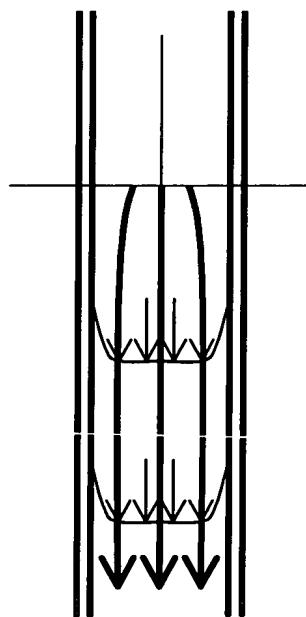


FIG.29



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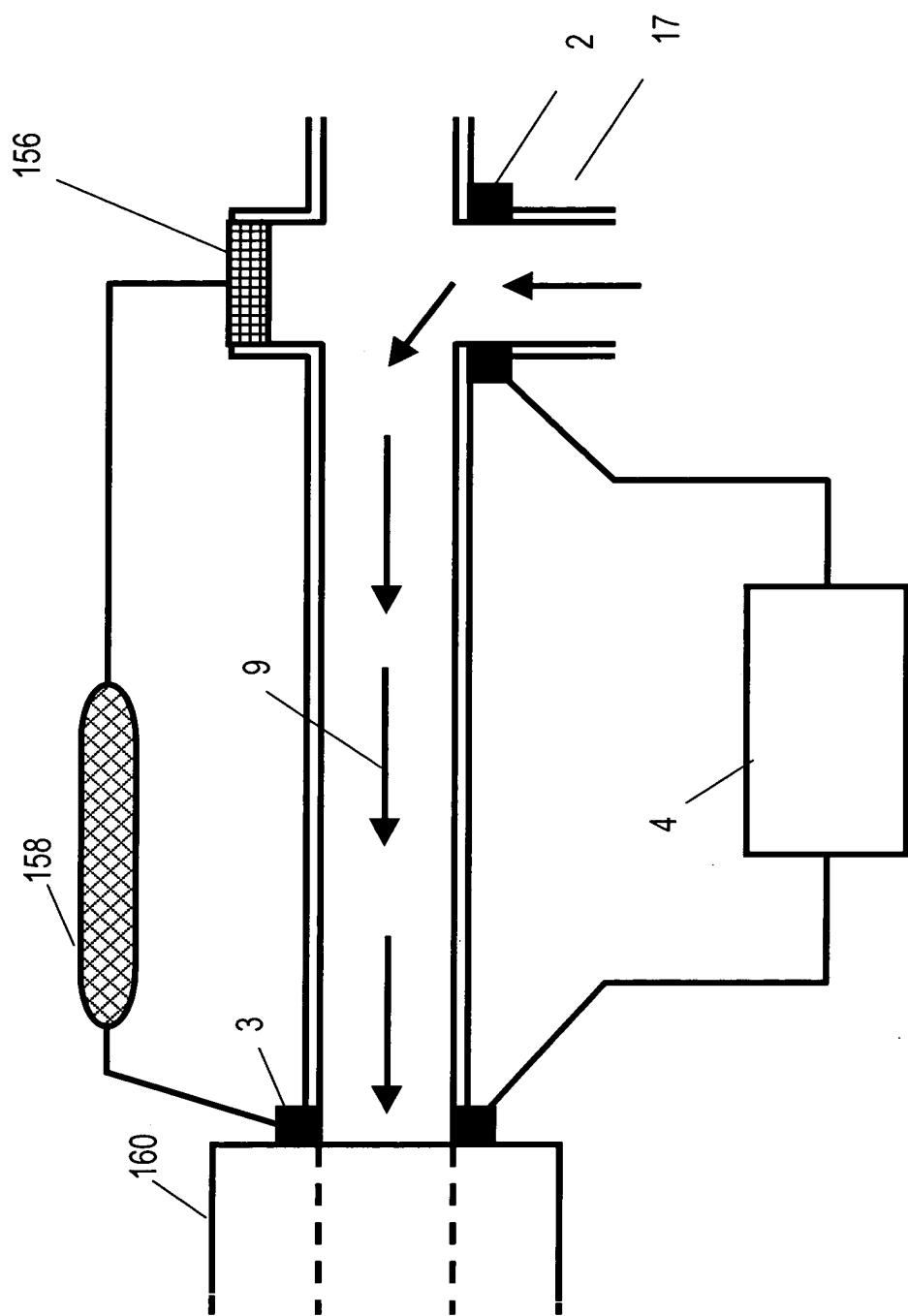


FIG.31

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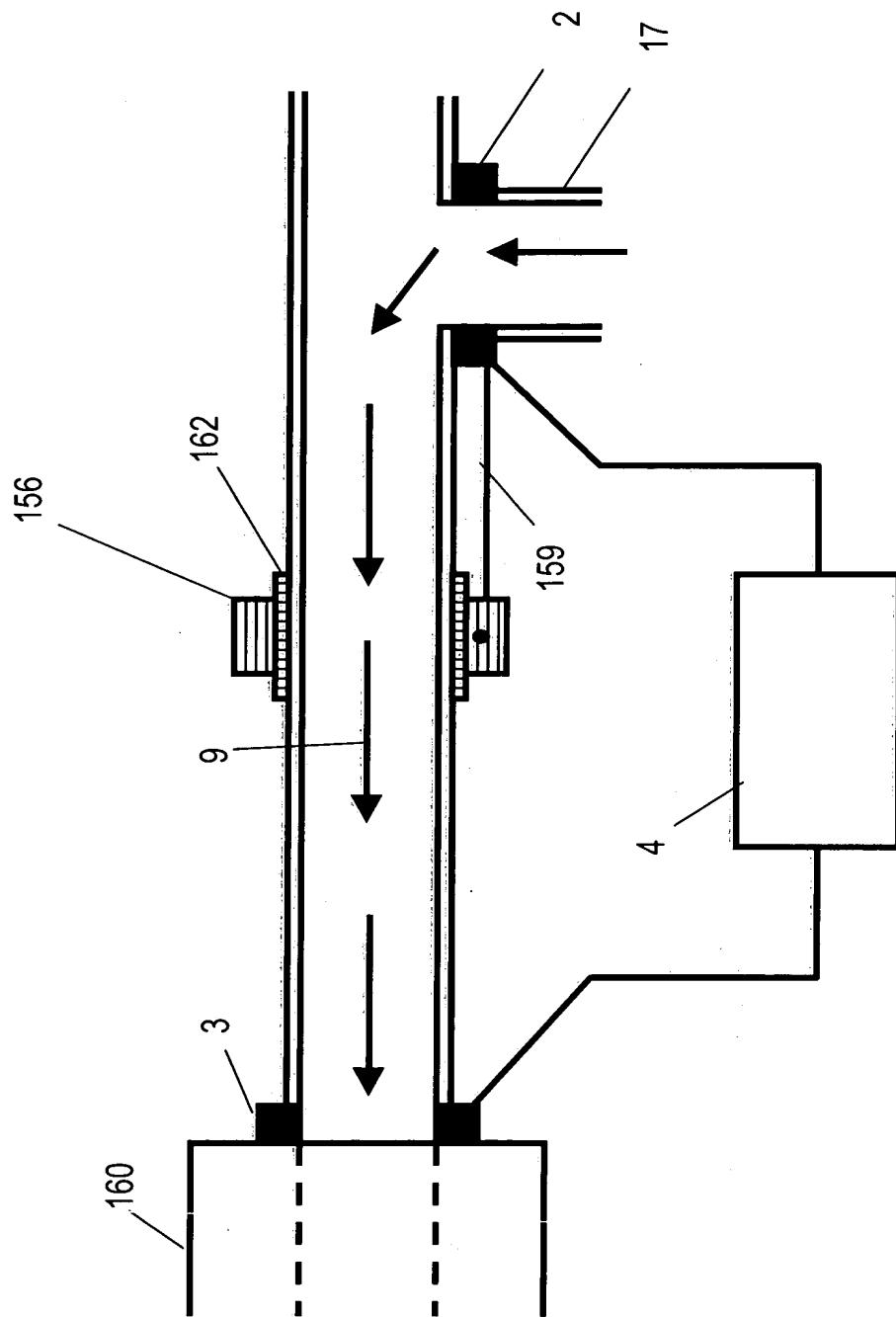


FIG.32

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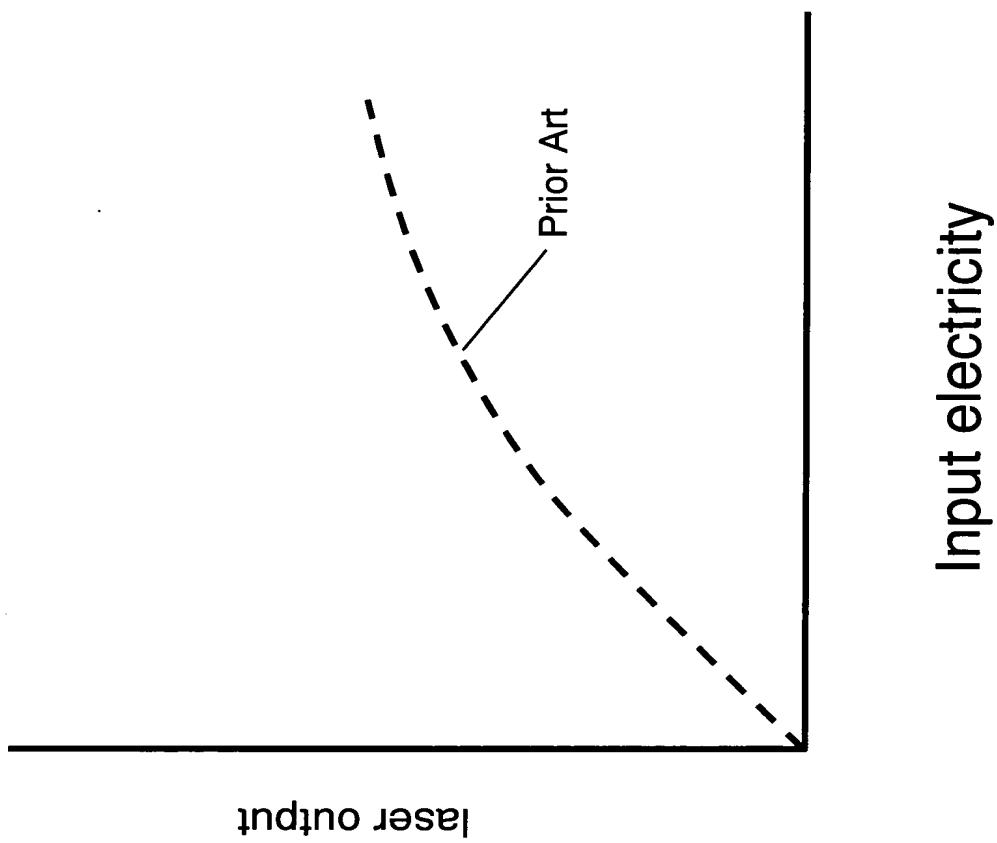


FIG.33

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## Reference numerals

- 1 Discharge tube
- 2, 3 Electrode
- 4 Power supply unit
- 5 5 Discharge area
- 6 Rear mirror
- 7 Output mirror
- 8 Laser beam
- 9 Gas circulation direction
- 10 10 Laser gas passage
- 11, 12 Heat exchanger
- 13 Blower
- 14 Mirror holder connecting rod
- 15a, 150a Output mirror holder
- 15 15b, 150b Rear mirror holder
- 16, 160 Discharge tube holder
- 17, 170 Discharge tube holder base
- 18, 180 Connection tube
- 19 Rotary shaft
- 20 20a Support unit
- 20b Rotary shaft support unit
- 21 Support bar
- 22 Rotating element
- 23 Rotating element support unit
- 25 200 Rotation support unit

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- 220 Slider
- 24 Spring member
- 25 Spring holder
- 26 Pillow ball
- 5 27 Rib
- 36, 136 Vortex
- 37, 137 Laser gas inlet
- 38 Columnar protrusion
- 55 Hole
- 10 56, 156 Auxiliary electrode
- 57 O-ring
- 58, 158 High resistance resistor
- 59 Laser gas flow direction
- 159 Conductor
- 15 162 Insulating sheet